

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
7 April 2005 (07.04.2005)

PCT

(10) International Publication Number
WO 2005/031359 A3

(51) International Patent Classification⁷: G01N 33/573, C12N 9/48

(21) International Application Number:
PCT/EP2004/010388

(22) International Filing Date:
16 September 2004 (16.09.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
03021896.0 27 September 2003 (27.09.2003) EP

(71) Applicant (for all designated States except US): **BAYER HEALTHCARE AG [DE/DE]; 51368 Leverkusen (DE)**.

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GOLZ, Stefan [DE/DE]; Bückmannsmühle 46, 45326 Essen (DE); BRÜGGEMEIER, Ulf [DE/DE]; Leysiefen 20, 42799 Leichlingen (DE); GEERTS, Andreas [DE/DE]; Schuckertstr. 29, 42113 Wuppertal (DE); POLEJ, Stefanie [DE/DE]; Feldstr. 10, 78315 Radolfzell (DE).**

(74) Common Representative: **BAYER HEALTHCARE AG; Law and Patents, Patents and Licensing, 51368 Leverkusen (DE).**

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
23 June 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/031359 A3

(54) Title: DIAGNOSTICS AND THERAPEUTICS FOR DISEASES ASSOCIATED WITH ARGINYL AMINOPEPTIDASE RNPEP (RNPEP)

(57) Abstract: The invention provides a human RNPEP which is associated with the cardiovascular diseases, cancer, dermatological diseases, hematological diseases, neurological diseases, urological diseases, respiratory diseases,. The invention also provides assays for the identification of compounds useful in the treatment or prevention of cardiovascular diseases, cancer, dermatological diseases, hematological diseases, neurological diseases, urological diseases, respiratory diseases,. The invention also features compounds which bind to and/or activate or inhibit the activity of RNPEP as well as pharmaceutical compositions comprising such compounds.